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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/719,065	11/24/2003	Johannes Catharinus Hubertus Mulkens	081468-0306886	9148
909	7590 05/06/2005		EXAMINER	
PILLSBURY WINTHROP SHAW PITTMAN, LLP			KIM, PETER B	
P.O. BOX 10500 MCLEAN, VA 22102			ART UNIT	PARER NUMBER
			2851	

DATE MAILED: 05/06/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

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	Application No.	Applicant(s)					
	10/719,065	HUBERTUS MULKENS ET AL.					
Office Action Summary	Examiner	Art Unit					
	Peter B. Kim	2851					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE!	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on	<u>_</u> .						
2a) This action is FINAL . 2b) ☑ This	action is non-final.						
3) Since this application is in condition for allowar							
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	33 O.G. 213.					
Disposition of Claims							
4)⊠ Claim(s) 1-62 is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-62</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	r election requirement.						
Application Papers		-					
9) The specification is objected to by the Examine	r.						
10) The drawing(s) filed on is/are: a) acce	epted or b) \square objected to by the ${ t E}$	Examiner.					
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correct	· · · · · · · · · · · · · · · · · · ·						
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign a)⊠ All b)□ Some * c)□ None of:	priority under 35 U.S.C. § 119(a)	n-(d) or (f).					
1. Certified copies of the priority documents have been received.							
2.⊠ Certified copies of the priority documents	s have been received in Applicati	on No. <u>09/866,875</u> .					
Copies of the certified copies of the prior	ity documents have been receive	ed in this National Stage					
application from the International Bureau	, , ,						
* See the attached detailed Office action for a list	of the certified copies not receive	d.					
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Interview Summary						
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 	Paper No(s)/Mail Da	ate atent Application (PTO-152)					
Paper No(s)/Mail Date <u>112003</u> .	6) Other:	, , , , , , , , , , , , , , , , , , ,					

DETAILED ACTION

Claim Objections

Claims 1, 24, 25, 50, 51, 52, 54, and 55 are objected to because of the following informalities: "one volume" or "a volume" is not clear because how much gas is supplied or controlled is not specified. Appropriate correction is required.

The following art rejections of the objected claims are based on the examiner's best understanding of the claims.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 12, 13, 14, 24, 25, 26, 29, 30, 39, 50-52, and 54-62 are rejected under 35 U.S.C. 102(e) as being anticipated by Nishi (2001/0015795).

Nishi discloses a lithographic projection apparatus and a device manufacturing method comprising a radiation system (IL), a support structure (RST) for supporting a patterning structure, a substrate table (WST), a projection system (PL) and a radiation absorber comprising a gas supply to supply an absorbent gas at a controlled concentration (para 0093), the absorbent gas absorbing radiation energy (para 0093). Nishi discloses the absorbent gas comprising helium and nitrogen (para 0093), mixed with purge gas (para 0096), and radiation comprising

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wavelength less than 365 nm (para 0093). Nishi discloses radiation-energy detector to determine energy of radiation passing through a region of interactive gas (para 0101). Nishi discloses a concentration controlled volume of radiation absorbent gas to be traversed by the beam of radiation (para 0093). Nishi supplies and controls absorbent gas to effect a desired non-uniform attenuation (para 0093, 0096).

Claims 1, 12, 13, 14, 24, 25, 26, 29, 30, 39, 50-52, and 54-62 are rejected under 35 U.S.C. 102(e) as being anticipated by Nishi (6,545,746).

Nishi discloses a lithographic projection apparatus and a device manufacturing method comprising a radiation system (328), a support structure (325) for supporting a patterning structure, a substrate table (302), a projection system (PL) and a radiation absorber comprising a gas supply to supply an absorbent gas at a controlled concentration (col. 45, lines 17-67), the absorbent gas absorbing radiation energy (col. 45, lines 17-67). Nishi discloses the absorbent gas comprising helium and nitrogen (col. 45, lines 17-42), mixed with purge gas (col. 45, lines 17-67), and radiation comprising wavelength less than 365 nm (col. 14, lines 6-20). Nishi discloses radiation-energy detector to determine energy of radiation passing through a region of interactive gas (col. 29, line 55 - col. 30, line 9). Nishi discloses a concentration controlled volume of radiation absorbent gas to be traversed by the beam of radiation (col. 45, lines 17-67). Nishi supplies and controls absorbent gas to effect a desired non-uniform attenuation (col. 45, lines 17-67).

Double Patenting

Claims 1-62 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-23 of U.S. Patent No. 6,538,716. Although the conflicting claims are not identical, they are not patentably distinct from each other because both the claims of the patent and the instant application disclose a lithographic apparatus with radiation absorbent gas supplied to control attenuation and detecting the energy of radiation to control attenuation.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peter B. Kim whose telephone number is (571) 272-2120. The examiner can normally be reached on 8:00 AM - 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Judy Nguyen can be reached on (571) 272-2258. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Peter B. Kim

Primary Examiner

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April 25, 2005